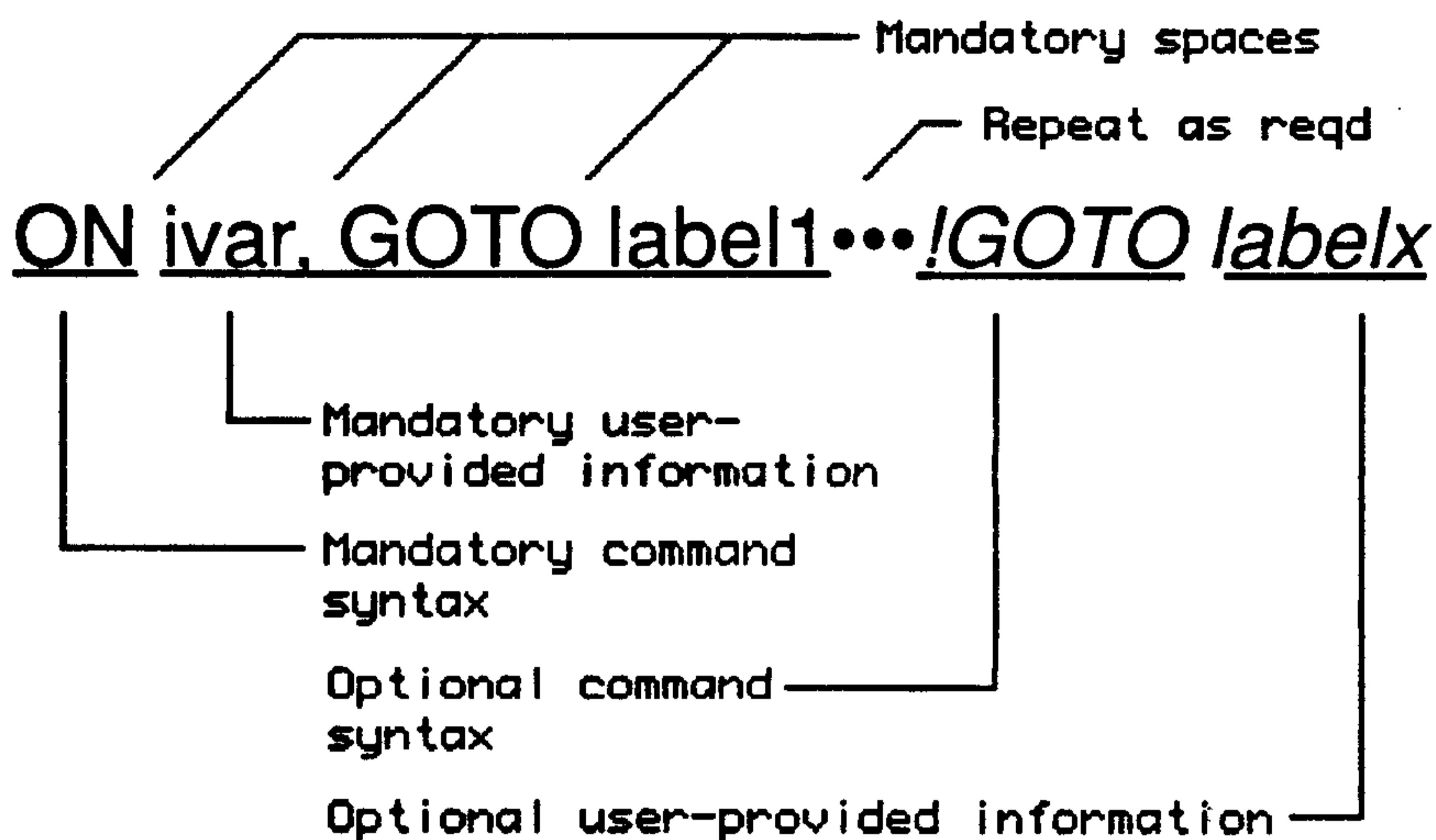


Symbols. The manual uses the symbols shown in Table 2 in MacroSoft commands. For example:



Symbol	Meaning
ivar	Integer variable
iconst	Integer constant
iary	Integer array
iexpr	Expression containing only integer variables and constants
fvar	Floating point (real) variable
fconst	Floating point (real) constant
fary	Floating point array
fexpr	Expression containing only floating point variables and constants
svar	String (literal) variable
sconst	String (literal) constant
sary	String array
sexpr	Expression containing only string variables and constants

ivar	Integer variable
iconst	Integer constant
iary	Integer array
iexpr	Expression containing only integer variables and constants

fvar	Floating point (real) variable
fconst	Floating point (real) constant
fary	Floating point array
fexpr	Expression containing only floating point variables and constants

svar	String (literal) variable
sconst	String (literal) constant
sary	String array
sexpr	Expression containing only string variables and constants

Table 2. Symbols used in MacroSoft commands



Rapid Reference

Main Menu

A	Run the Assembler
C	Catalog current disk
D	Set Assembler default Parameters
E	Enter Editor
L	Load a file from disk
M	Merge a file on disk with the current file
N	Clear file space
P	Set ProDOS prefix or DOS 3.3 Slot/Drive number
S	Save the current file to disk
U	Enter Utilities Menu (see below)
CTRL-D	Set date (ProDOS) or execute DOS command (DOS)
\$	Apple Monitor Command or set date (DOS)
!	Quit the Assembler
RETURN	Display Help menu

Utilities Menu

B	Load text file
C	Catalog any disk (ProDOS)
D	Delete a file (ProDOS)
L	Lock a file (ProDOS)
M	Make a directory (ProDOS)
P	Print the current source file
T	Save the current source file as a text file
U	Unlock a file (ProDOS)
!	Return to Main Menu

Editor Commands

Syntax	Explanation
Cx,y,z	Copy lines x through y, z times.
Dx,y	Delete lines x through y.
Ex,y	Edit lines x through y.
E'XX'x,y	Edit lines that contain XX from x through y.
F	Displays length of source code and space remaining for source.
H or ?	Display Help menu.
Ix	Insert lines beginning at line x.
L'XX'x,y	Print formatted with XX for lines x through y.
Lx,y	Print formatted lines x through y.
Mx,y	Move lines x through y.
O'XX'x,y	Send to printer lines containing XX for lines x through y.
Ox,y	Send lines x through y to printer.
P'XX'x,y	Print lines containing XX for lines x through y.
Px,y	Print lines x through y.

R'XX'YY'x,y	Replace XX with YY for lines x through y.
W or /	Print current line.
CTRL-R	Replay last entered command.
CTRL-Y	Toggle to lower/upper case.
RETURN	Toggle between insert/command modes.
, or UP-ARROW	Move to previous line.
. or DOWN-ARROW	Move to next line.
! or ESC	Return to main menu.

Special Editor Symbols

- * Last line
- +x From current line through next x lines
- > Find next occurrence (after string search)

Commands for Line Edit Mode

RIGHT-ARROW	Move forward one character
LEFT-ARROW	Move backward one character
CTRL-B	Go to beginning
CTRL-D	Delete character under cursor
CTRL-E	Go to end
CTRL-I	Insert characters
CTRL-T	Tab to next field
CTRL-Z	Delete to end of line
ESC	Leave with no changes
RETURN	Leave with all changes
DELETE	Destructive backspace

MacroSoft Commands

```

ABS ivar1,ivar2
ALET iary(iexpr1)=iexpr2
ALET iary1(iexpr1)=iary2(iexpr2)
ALET ivar=rary(iexpr)
ATN fvar1,fvar2
BCK iexpr
BEGIN icanst1,icanst2
BUTTON iexpr,statement1...,statementN
CALL iexpr
CHR svar,iexpr
CLEANUP
COLOR iexpr
CONCAT svar1,svar2
COS fvar1,fvar2
DATA icanst1...,icanstN
DECR ivar
DIM iary(icanst1,icanst2)...,iaryN(icanstN1,
                                         icanstN2)
DIM iary1(icanst1)...,iaryN(icanstN)
DIV2 ivar
DRAW iexpr1,iexpr2,iexpr3
ELSE statement1...!statementN
END
EXP fvar1,fvar2
FABS fvar1,fvar2
FCLOSE pathname

```

```

FCOMP ivar,fvar1,fvar2
FCREATE pathname
FDIM faryl(iconst1)..,faryN(iconstN)
FEND pathname
FINPUT fvar
FINT fvar1,fvar2
FLASH
FLET fary(iexpr)=fexpr
FLET faryl(iexpr1)=fary2(iexpr2)
FLET fvar=fary(iexpr)
FLET fvar=fexpr
FOPEN pathname
FOR ivar=iexpr1,iexpr2
FP rvar=fexpr
FPRINT fexpr
FPTOS svar,fvar
FREAD pathname,sary,iexpr
FVAR fvar1..,fvarN
FWRITE pathname,sexpr,
GET ivar
GETVAR fary,afary,iexpr
GETVAR fvar,afvar
GETVAR iary,aiary,iexpr
GETVAR ivar,aivar
GOSUB label
GOTO label
GR
HCOLOR iexpr
HFIND ivar1,ivar2
HGR
HGR2
HLIN iexpr1,iexpr2,iexpr3
HOME
HPOINT iexpr1,iexpr2,iexpr3,iexpr4
HPOSN iexpr1,iexpr2
HSCRN ivar,iexpr1,iexpr2
HTAB iexpr
IF iexpr,statement1..! statementN
IFAND iexpr1,..iexprN,statement1..!statementN
IFOR iexpr1,..iexprN, statement1..!statementN
IN iexpr
INCR ivar
INPUT ivar
INTTOS svar,ivar
KEY iexpr,statement1..,statementN
KEY sconst,statement1..,statementN
KEYPRESS ivar,statement1..,statementN
LEFT svar1,svar2,iexpr
LEN ivar,svar
LET ivar=iexpr
LINE iexpr1,iexpr2
LOG fvar1,fvar2
MID svar1,svar2,iexpr1,iexpr2
MPL
MUL
MULT2 ivar
NEXT ivar
NORMAL
INVERSE
NUMFILES iconst

ON ivar,statement1".."statementN
ONERR label,ivar1,ivar2
ONRESET ivar1,ivar2,ivar3
PAUSE iexpr

```

```

PDL ivar,iexpr
PEEK ivar,iexpr
PLOT iexpr1,iexpr2
POKE iexpr1,iexpr2
POP
PR iexpr
PRINT iexpr
PRINT "sconst"
PUTVAR afary,fary,iexpr
PUTVAR afvar,fvar
PUTVAR aiary,iary,iexpr
PUTVAR aivar,ivar
READ iary,label,iexpr
REPEAT
RETURN
RIGHT svar1,svar2,iexpr
RND ivar,iexpr
ROT iexpr
SCALE iexpr
SCRN ivar,iexpr1,iexpr2
SET iexpr,ivar1..,ivarN
SGN ivar1,ivar2
SIF sexpr,statement1..!statementN
SIN fvar1,fvar2
SINPUT svar,iconst1,iconst2
SLET sary(iexpr)=sexpr
SLET saryl(iexpr1)=sary2(iexpr2)
SLET svar=sary(iexpr)
SLET svar=sexpr
SOUND iexpr1,iexpr2
SPC iexpr,
SPRINT sexpr,iexpr1,iexpr2
SQR fvar1,fvar2
STOFP fvar,svar
STOINT ivar,svar
STOP
TAN fvar1,fvar2
TEXT
TOFP fvar,ivar
TOINT ivar,fvar
UEN
UNTIL iexpr
USE libraryname
VAR ivar1..,ivarN
VLIN iexpr1,iexpr2,iexpr3
VTAB iexpr
WHILE iexpr
WHILEN
XDRAW iexpr1,iexpr2,iexpr3

```